REMARKS

Claims 1-20 are pending in this application. Claims 16 and 18 have been withdrawn from

consideration. Claims 1-8, 10-15, 17, 19 and 20 are allowed pursuant to the Notice of Allowance

dated 11-DEC-2009.

With this paper, a Request for Continued Examination (RCE) is simultaneously presented

along with amendments to claims 1, 10, 17, 19, and 20.

The applicants are presenting this RCE and the amendments because in a previous Office

Action, the Examiner rejected claims 1, 17, 19 and 20 under the provisions of 35 U.S.C. § 112 as

being indefinite. More particularly, the examiner stated that the terminology "operate in deep

saturation" is vague and indefinite. In responding to the Office Action the applicants inadvertently

included into those claims recitations that – while exemplary - were unnecessarily narrow.

The applicants submit that the operation of a semiconductor optical amplifier in "deep

saturation" as now recited is a regime that would now be readily appreciated by those skilled in the

art. As noted in the specification, such a regime is that in which the $P_{out}(dBm)$ vs. $P_{in}(dBm)$ slope

is smaller than 0.25 which is recited in the claims.

Conclusion:

The applicants submit that all of the claims now present in the application fully comply with

the provisions of 35 U.S.C. § 112, and 103 and are therefore allowable. Accordingly, both

reconsideration of this application and its swift passage to issue are earnestly solicited.

Respectfully submitted,

JEFFERY J. BROSEMER

By s/Jeffery J. Brosemer/

Jeffery J. Brosemer

Reg. No. 36,096

Tel.:(732)335.5773

Page 6 of 7

CERTIFICATE OF TRANSMISSION UNDER 37 C.F.R. 1.8(a) I hereby certify that this correspondence is being facsimile transmitted to the United States Paten and Trademark Office on February 5, 2010.	
s/Jeffery J.	Brosemer/
Signa	
	. Brosemer
Typed or printed name of j	person signing certificate
36,096	(732)335-5773
Registration Number	Telephone Number